

What is claimed is:

1. A bolt having a head at one end with a shank of non-round cross section extending from the head along said bolt length for some distance after which the shank is round and threaded for the remaining length of said bolt with said bolt having a cross-hole at or near the junction of the non-round cross section and the round threaded portion.
2. A bolt having a head at one end with a shank of non-round cross section extending from the head along said bolt length for some distance after which the shank is round and threaded for the remaining length of said bolt and said bolt having a groove around its circumference at or near the junction of the non-round cross section and the round threaded portion.
3. In combination; a bolt, retainer, and rail member for preventing rotation of said bolt while installing a nut onto or removing a nut from said bolt comprising, said bolt having a head at one end with a shank of non-round cross section extending from the head along said bolt length for some distance after which the shank is round and threaded for the remaining length of said bolt with said bolt having a cross-hole at or near the junction of the non-round cross section and the round threaded portion,

a retainer of a size and shape such that it can be fitted through the cross hole in

said bolt and made secure at or near the junction of the non-round portion and the threaded portion of said bolt,

a rail member with one or more non-round holes along its length of a size and shape to match and receive the non-round portion of said bolt,

whereby, when the non-round portion of said bolt is passed through a non-round hole in the rail member and the retainer is installed into the cross hole in said bolt said bolt is restrained from moving out of engagement with the non-round opening in said rail member thereby preventing said bolt from rotating relative to the rail member.

4. In combination; a bolt, retainer, and rail member for preventing rotation of said bolt while installing a nut onto or removing a nut from said bolt comprising,

said bolt having a head at one end with a shank of non-round cross section extending from the head along said bolt length for some distance after which the shank is round and threaded for the remaining length of said bolt with said bolt having a groove around its circumference at or near the junction of the non-round cross section and the round threaded portion,

a retainer of a size and shape such that it can be installed onto the groove in said bolt at or near the junction of the non-round portion and the threaded portion of said bolt,

a rail member with one or more non-round holes along its length of a size and shape to match and receive the non-round portion of said bolt,

whereby, when the non-round portion of said bolt is passed through a non-round hole in the rail member and the retainer is installed onto the groove in said bolt said bolt is restrained from moving out of engagement with the non-round opening in said rail member thereby preventing said bolt from rotating relative to the rail member.

5. In combination; a bolt, retainer, and rail member for preventing rotation of said bolt while installing a nut onto or removing a nut from said bolt comprising, said bolt having a head at one end with a shank of non-round cross section extending from the head along said bolt length for some distance after which the shank is round and threaded for the remaining length of said bolt, a retainer of a size and shape such that it can be installed onto said bolt at or near the junction of the non-round and round threaded portions of said bolt and be secure at or near said junction, a rail member with one or more non-round holes along its length of a size and shape to match and receive the non-round portion of said bolt, whereby, when the non-round portion of said bolt is passed through a non-round hole in the rail member and the retainer is installed onto said bolt said bolt

is restrained from moving out of engagement with the non-round opening in said rail member thereby prevented said bolt from rotating relative to the rail member.

6. A combination as in claim 3 whereby said threaded bolt is a carriage bolt having a cross-hole added at the juncture of the square portion and the round threaded portion to receive a retainer through the cross hole at the junction of the threaded portion and the square portion of said carriage bolt, with said rail member having a square opening of shape and size to match the square portion of said carriage bolt.

7. A combination as in claim 4 whereby said threaded bolt is a carriage bolt having a groove added around the circumference at the juncture of the square portion and round threaded portion to receive a retainer onto the groove at the junction of the threaded portion and the square portion of said carriage bolt, with said rail member having a square opening of shape and size and to match the square portion of said carriage bolt.

8. A combination as in claim 5 whereby said threaded bolt is a carriage bolt with said rail member having a square opening of shape and size to match the square portion of said carriage bolt.

9. A combination as in claim 3 where said retainer installed in the cross-hole is a roll pin.

10. A combination as in claim 3 where said retainer installed in the cross-hole is a cotter key.

11. A combination as in claim 3 where said retainer installed in the cross-hole is a wire.

12. A combination as in claim 4 where said retainer installed onto the groove is a retaining ring.

13. A combination as in claim 4 where said retainer installed onto the groove is a spring clip.

14. A combination as in claim 5 where said retainer installed is a push-on nut.

15. A combination as in claim 5 where said retainer installed is an internal tooth spring grip washer.

16. A combination as in claim 5 where said retainer installed is a threaded nut.